

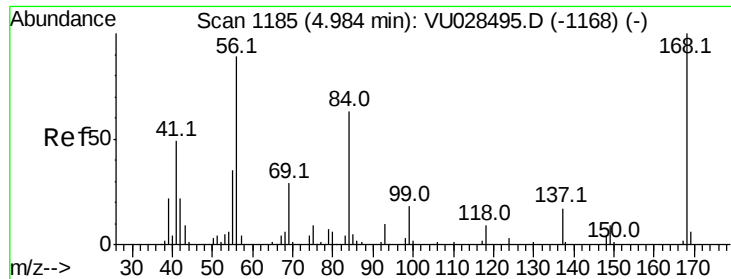
Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U121718\
 Data File : VU028756.D
 Acq On : 18 Dec 2018 06:24
 Operator : MD/SY
 Sample : J6438-20 10X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 18 07:40:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	83509	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	148087	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	133329	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	51847	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	67462	52.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.88%	
35) Dibromofluoromethane	4.88	113	49690	53.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.64%	
50) Toluene-d8	7.56	98	190174	51.59	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.18%	
62) 4-Bromofluorobenzene	10.30	95	62954	45.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.38%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	1859	0.903	ug/l	99
4) Vinyl Chloride	1.28	62	2175	1.465	ug/l #	43
11) Tert butyl alcohol	2.84	59	858	3.022	ug/l #	73
16) Acetone	2.32	43	1853	2.228	ug/l	97
18) Methyl Acetate	2.62	43	1668	0.774	ug/l #	78
25) 2-Butanone	4.28	43	564	0.496	ug/l #	52
31) Cyclohexane	4.98	56	1966	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	7589	4.683	ug/l #	48
38) Carbon Tetrachloride	4.98	117	8043	6.158	ug/l #	15
40) Benzene	5.39	78	1410	0.295	ug/l #	88
51) 4-Methyl-2-Pentanone	7.56	43	927	0.444	ug/l #	1
76) 1,2,3-Trichloropropane	10.30	75	32502	24.550	ug/l #	36
78) n-propylbenzene	10.59	91	1084	0.219	ug/l	80
79) 2-Chlorotoluene	10.59	91	1084	0.381	ug/l #	43
81) trans-1,4-Dichloro-2-buten	10.30	75	32502	60.251	ug/l #	100
82) 4-Chlorotoluene	10.59	91	1084	0.321	ug/l #	47
84) 1,2,4-Trimethylbenzene	11.15	105	1060	0.312	ug/l	85
90) Hexachloroethane	12.35	117	180	0.344	ug/l #	11

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028756.D

Acq: 18 Dec 2018 06:24

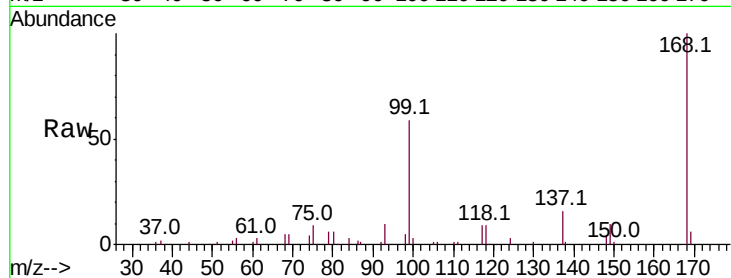
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 83509

Ion Ratio Lower Upper

168 100

99 59.4 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): VU028495.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028495.D (-1168) (-)

4.98

40000

30000

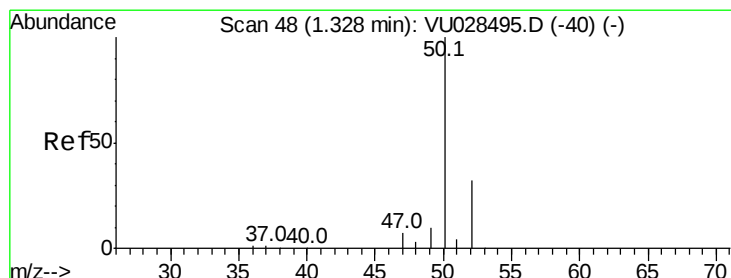
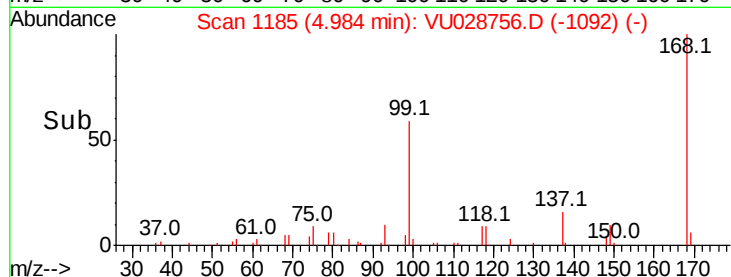
20000

10000

0

4.90 5.00 5.10

Time-->



#3

Chloromethane

Concen: 0.903 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028756.D

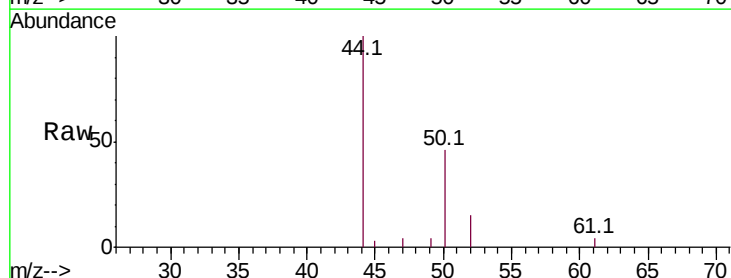
Acq: 18 Dec 2018 06:24

Tgt Ion: 50 Resp: 1859

Ion Ratio Lower Upper

50 100

52 32.2 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VU028495.D (-40) (-)

Ion 51.90 (51.60 to 52.60): VU028495.D (-40) (-)

1.33

1500

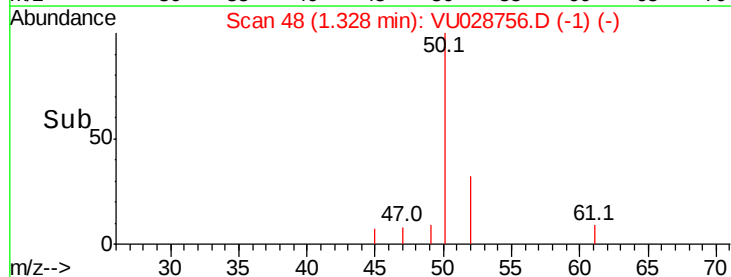
1000

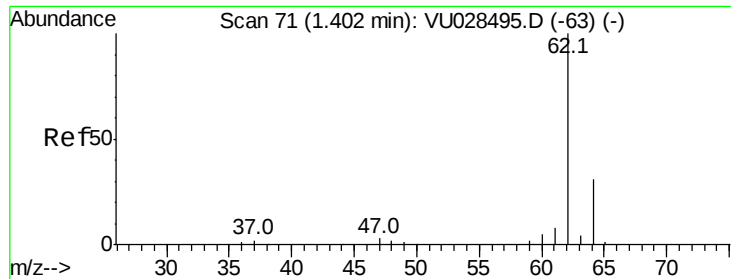
500

0

1.30 1.35

Time-->





#4

Vinyl Chloride

Concen: 1.465 ug/l

RT: 1.28 min Scan# 34

Delta R.T. -0.12 min

Lab File: VU028756.D

Acq: 18 Dec 2018 06:24

Instrument :

MSVOA_U

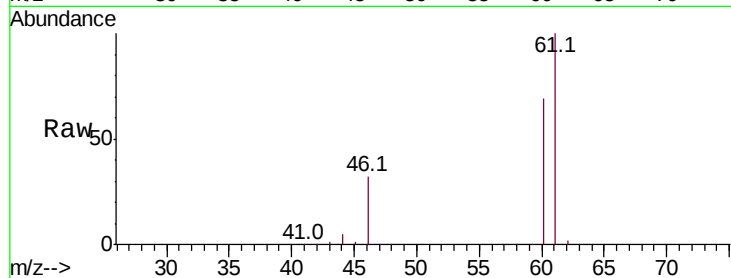
ClientSampled :

Tot Ion: 62 Resp: 2175

Ion Ratio Lower Upper

62 100

64 0.0 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0

1.28

2500

2000

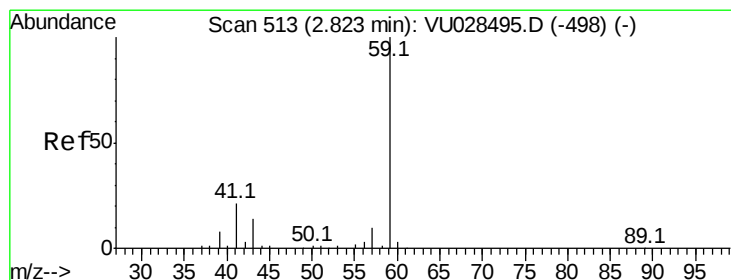
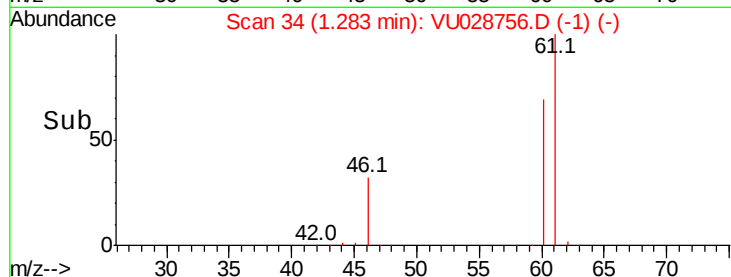
1500

1000

500

0

Time-->



#11

Tert butyl alcohol

Concen: 3.022 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.02 min

Lab File: VU028756.D

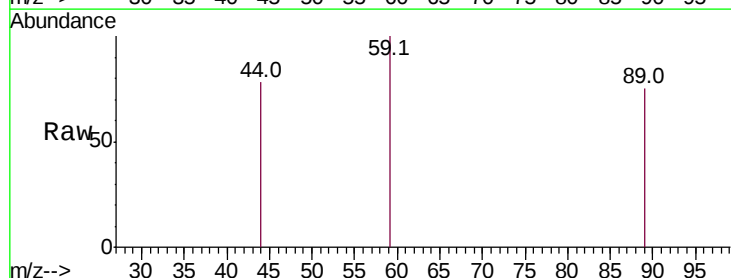
Acq: 18 Dec 2018 06:24

Tgt Ion: 59 Resp: 858

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

500

400

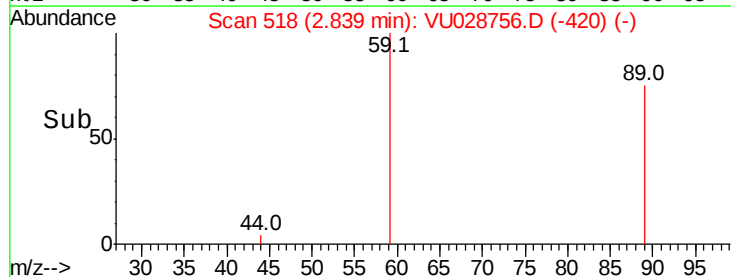
300

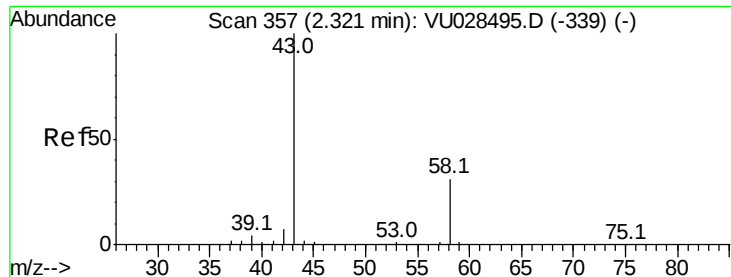
200

100

0

Time-->





#16

Acetone

Concen: 2.228 ug/l

RT: 2.32 min Scan# 358

Delta R.T. 0.00 min

Lab File: VU028756.D

Acq: 18 Dec 2018 06:24

Instrument :

MSVOA_U

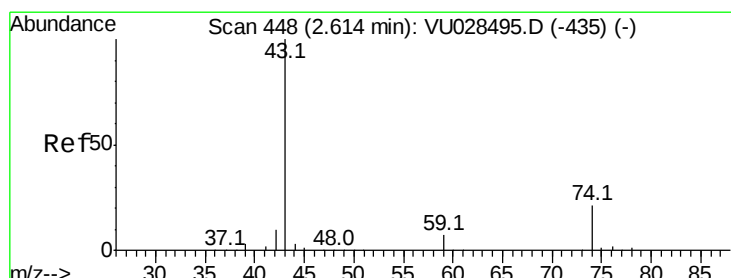
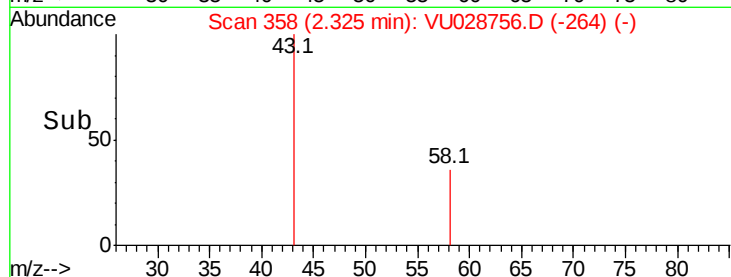
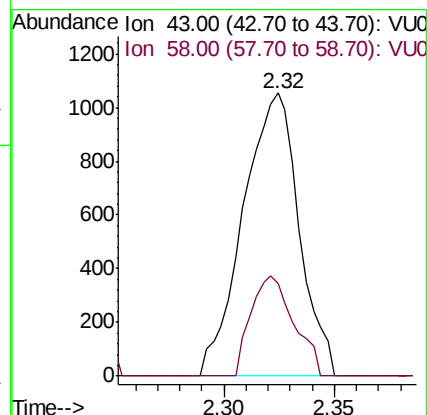
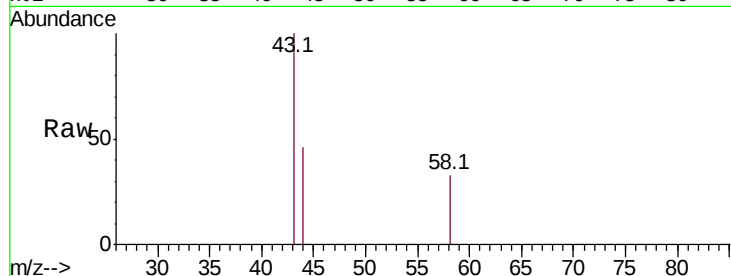
ClientSampleId :

Tot Ion: 43 Resp: 1853

Ion Ratio Lower Upper

43 100

58 32.6 24.6 37.0



#18

Methyl Acetate

Concen: 0.774 ug/l

RT: 2.62 min Scan# 451

Delta R.T. 0.01 min

Lab File: VU028756.D

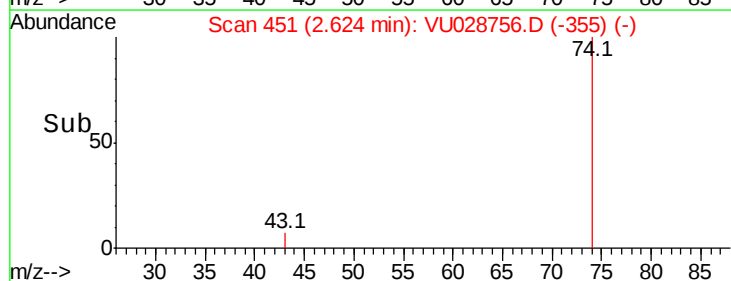
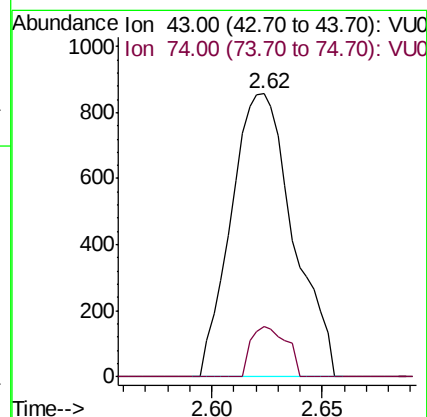
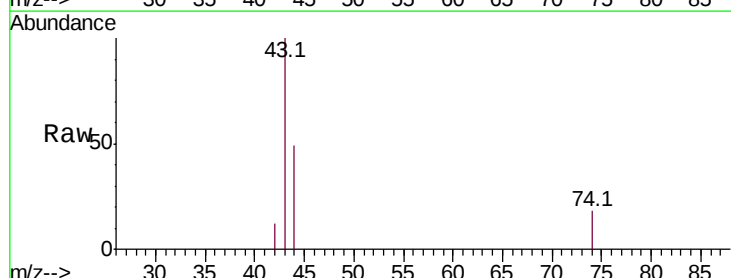
Acq: 18 Dec 2018 06:24

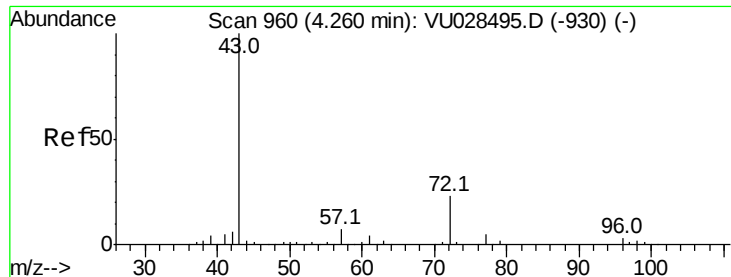
Tgt Ion: 43 Resp: 1668

Ion Ratio Lower Upper

43 100

74 10.1 16.4 24.6#





#25

2-Butanone

Concen: 0.496 ug/l

RT: 4.28 min Scan# 966

Delta R.T. 0.02 min

Lab File: VU028756.D

Acq: 18 Dec 2018 06:24

Instrument :

MSVOA_U

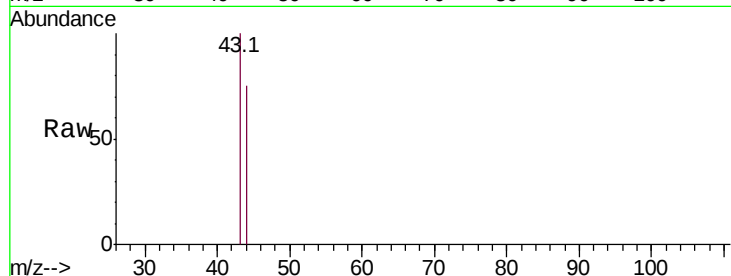
ClientSampleId :

Tot Ion: 43 Resp: 564

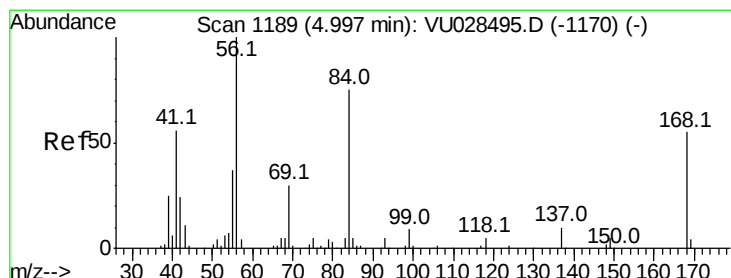
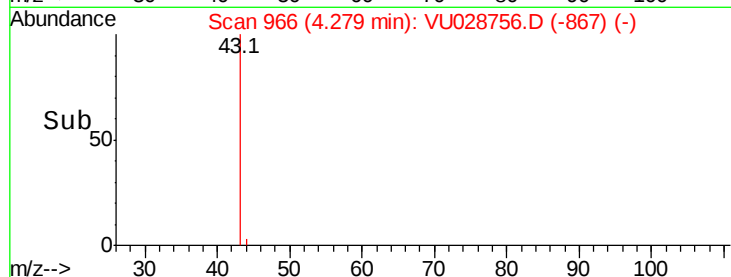
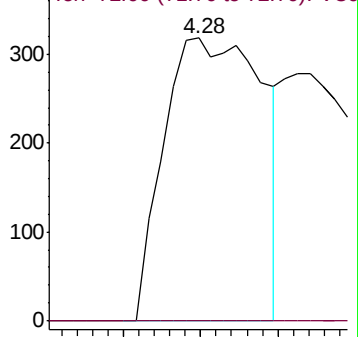
Ion Ratio Lower Upper

43 100

72 0.0 18.6 28.0#



Abundance Ion 43.00 (42.70 to 43.70): VU028495.D (-930) (-)



#31

Cyclohexane

Concen: Below Cal

RT: 4.98 min Scan# 1184

Delta R.T. -0.02 min

Lab File: VU028756.D

Acq: 18 Dec 2018 06:24

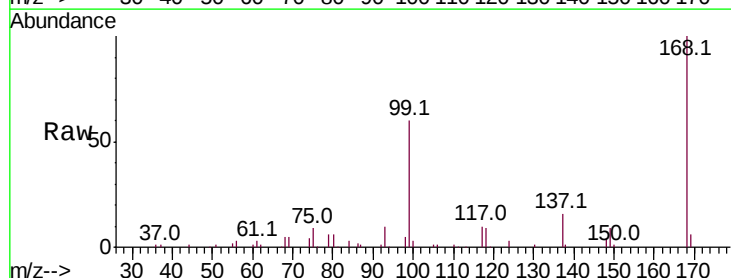
Tgt Ion: 56 Resp: 1966

Ion Ratio Lower Upper

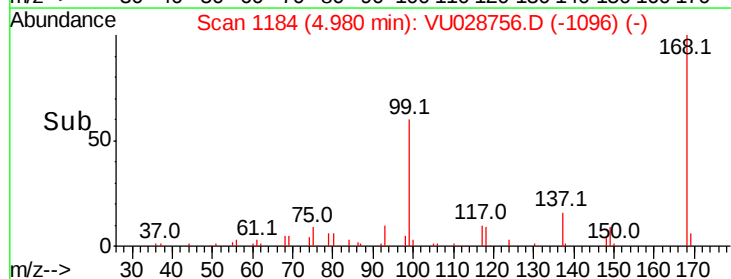
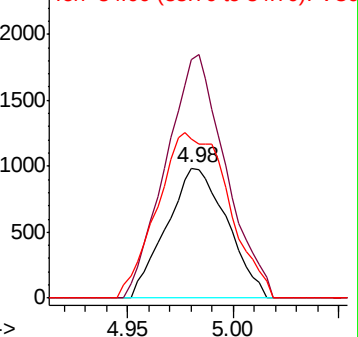
56 100

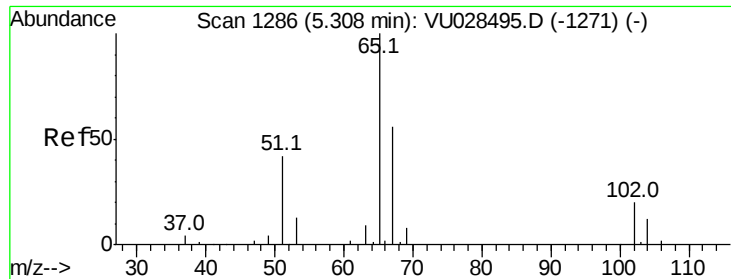
69 183.3 24.0 36.0#

84 122.3 59.7 89.5#



Abundance Ion 56.00 (55.70 to 56.70): VU028495.D (-1170) (-)

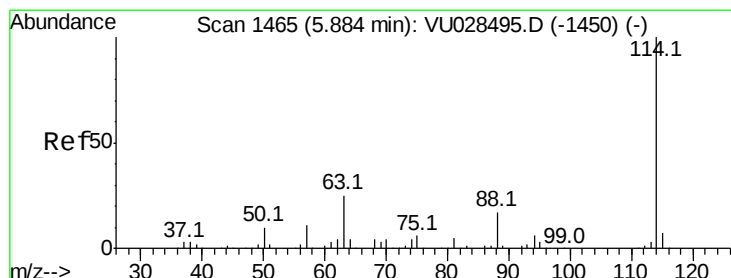
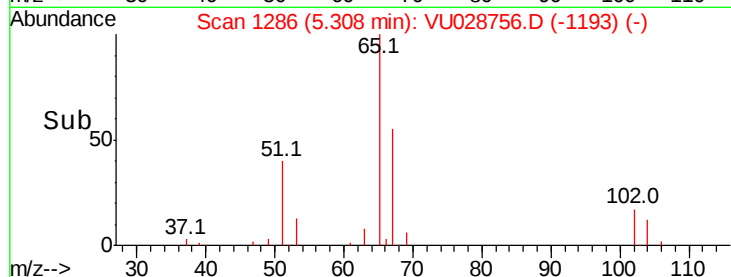
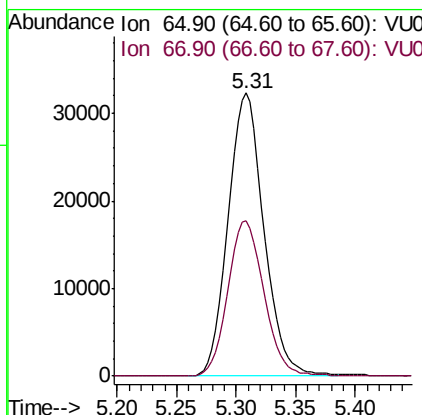
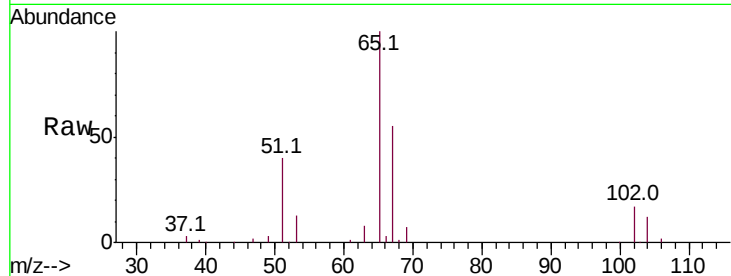




#33
 1,2-Dichloroethane-d4
 Concen: 52.936 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028756.D
 Acq: 18 Dec 2018 06:24

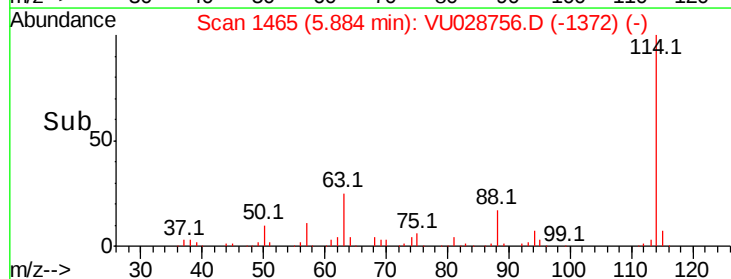
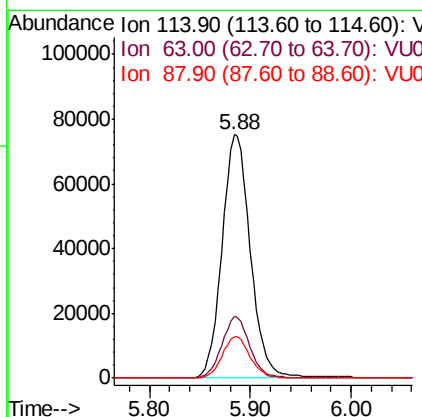
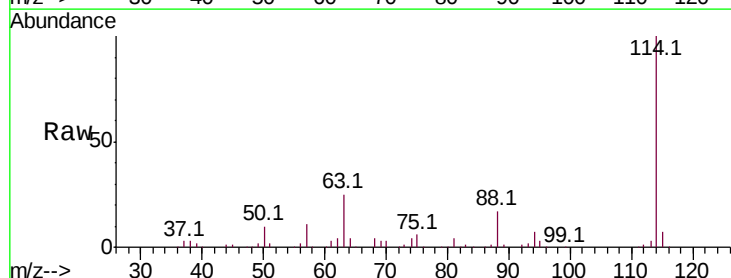
Instrument :
 MSVOA_U
 ClientSampleId :

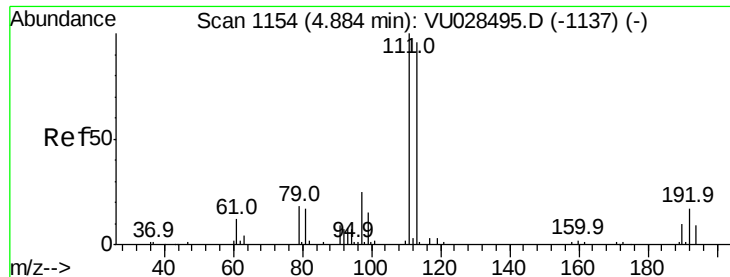
Tot Ion: 65 Resp: 67462
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028756.D
 Acq: 18 Dec 2018 06:24

Tgt Ion: 114 Resp: 148087
 Ion Ratio Lower Upper
 114 100
 63 25.2 0.0 49.2
 88 16.8 0.0 33.4

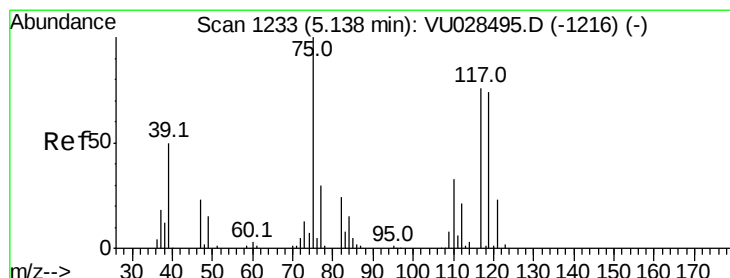
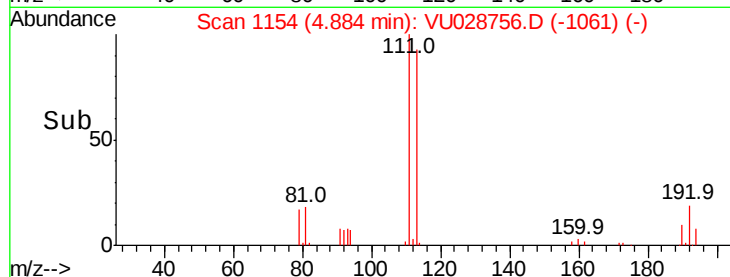
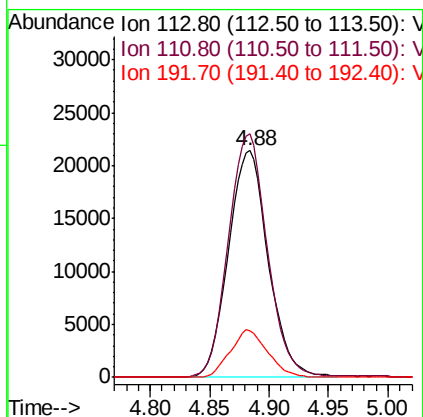
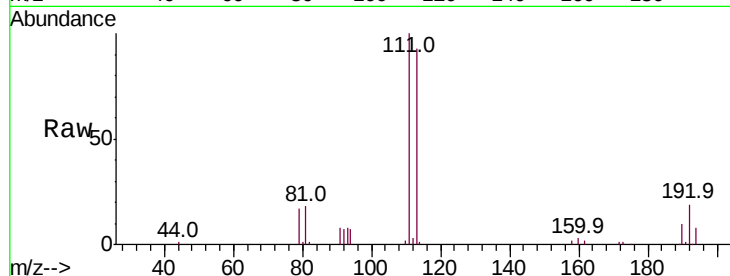




#35
 Dibromofluoromethane
 Concen: 53.320 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU028756.D
 Acq: 18 Dec 2018 06:24

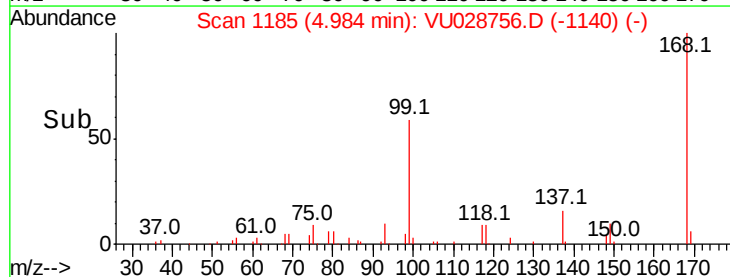
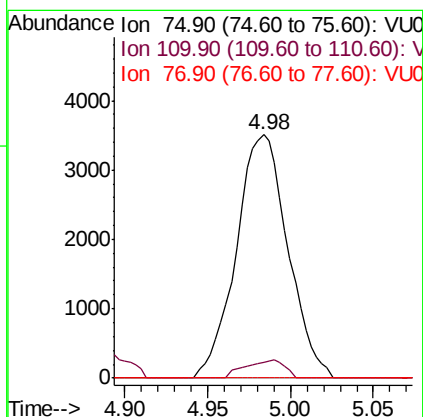
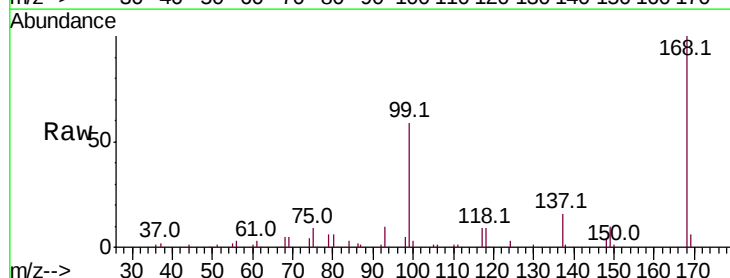
Instrument :
 MSVOA_U
 ClientSampleId :

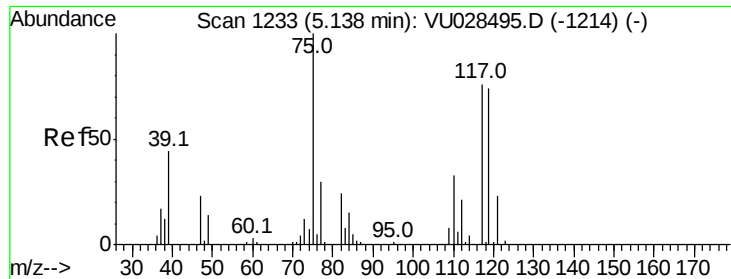
Tot Ion:113 Resp: 49690
 Ion Ratio Lower Upper
 113 100
 111 105.3 83.4 125.0
 192 19.5 14.8 22.2



#36
 1,1-Dichloropropene
 Concen: 4.683 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028756.D
 Acq: 18 Dec 2018 06:24

Tgt Ion: 75 Resp: 7589
 Ion Ratio Lower Upper
 75 100
 110 5.7 16.1 48.2#
 77 0.0 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 6.158 ug/l

RT: 4.98 min Scan# 1184

Delta R.T. -0.16 min

Lab File: VU028756.D

Acq: 18 Dec 2018 06:24

Instrument :

MSVOA_U

ClientSampled :

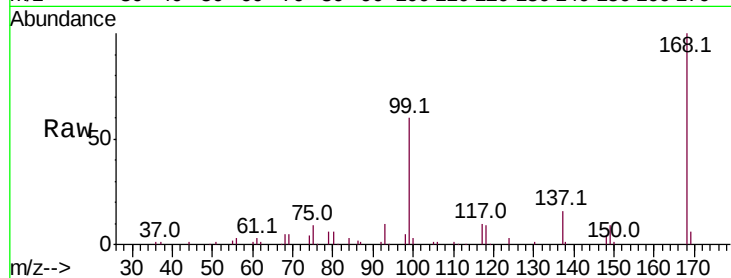
Tot Ion:117 Resp: 8043

Ion Ratio Lower Upper

117 100

119 4.3 77.6 116.4#

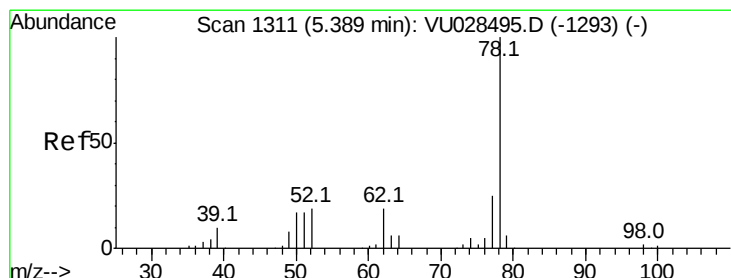
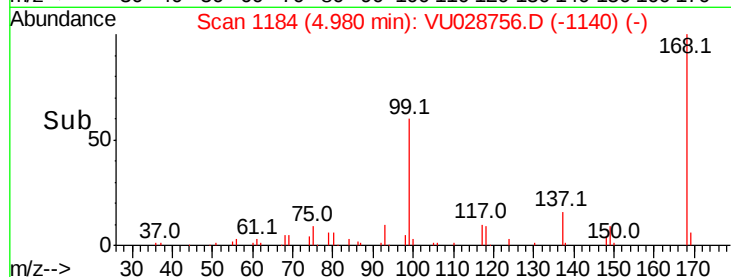
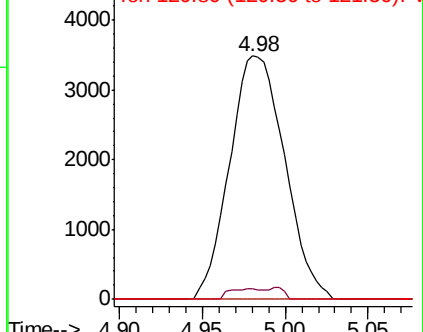
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#40

Benzene

Concen: 0.295 ug/l

RT: 5.39 min Scan# 1312

Delta R.T. 0.00 min

Lab File: VU028756.D

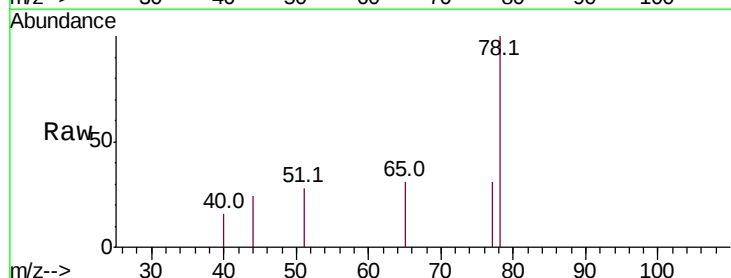
Acq: 18 Dec 2018 06:24

Tgt Ion: 78 Resp: 1410

Ion Ratio Lower Upper

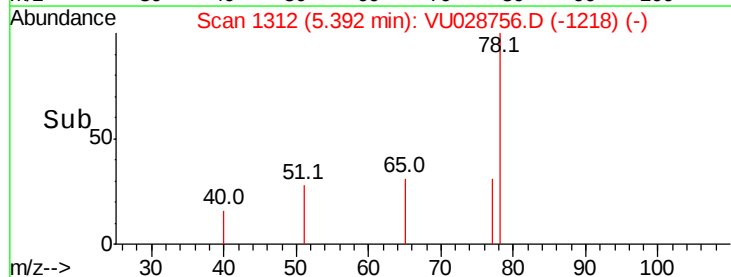
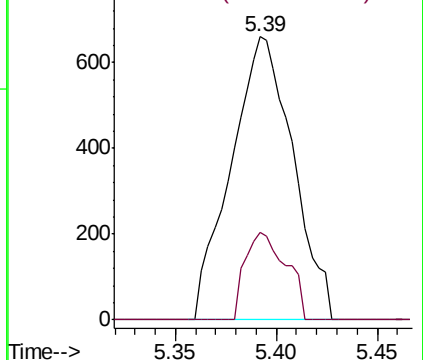
78 100

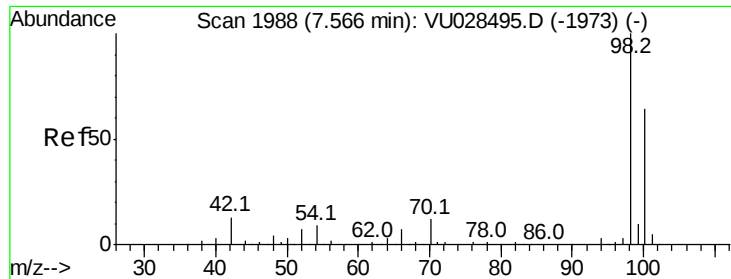
77 30.8 19.9 29.9#



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#50

Toluene-d8

Concen: 51.586 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VU028756.D

Acq: 18 Dec 2018 06:24

Instrument :

MSVOA_U

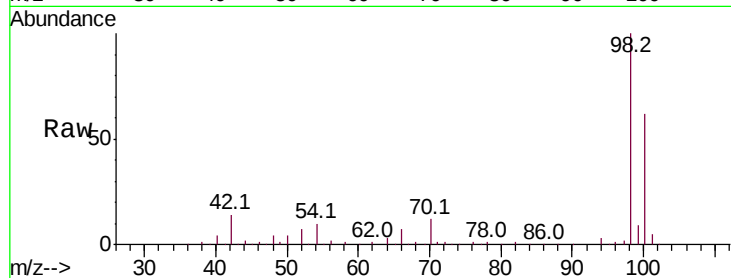
ClientSampleId :

Tot Ion: 98 Resp: 190174

Ion Ratio Lower Upper

98 100

100 63.0 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU

7.56

120000

100000

80000

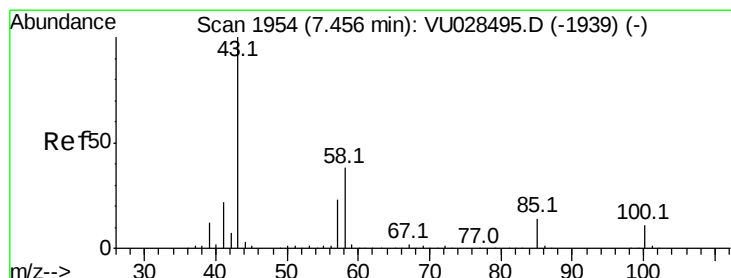
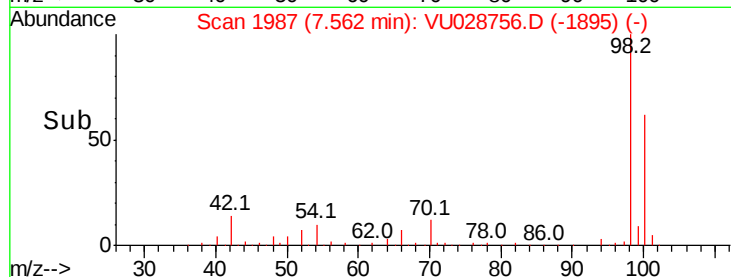
60000

40000

20000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.444 ug/l

RT: 7.56 min Scan# 1987

Delta R.T. 0.11 min

Lab File: VU028756.D

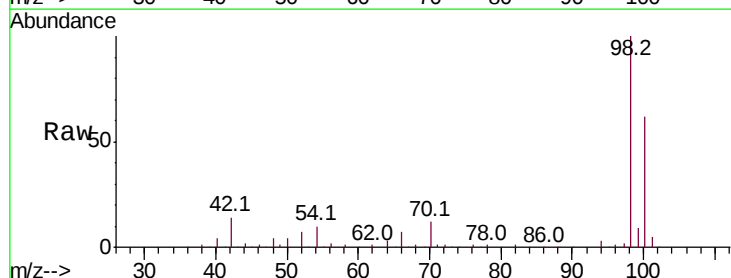
Acq: 18 Dec 2018 06:24

Tgt Ion: 43 Resp: 927

Ion Ratio Lower Upper

43 100

58 186.0 30.2 45.2#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

1200

1000

800

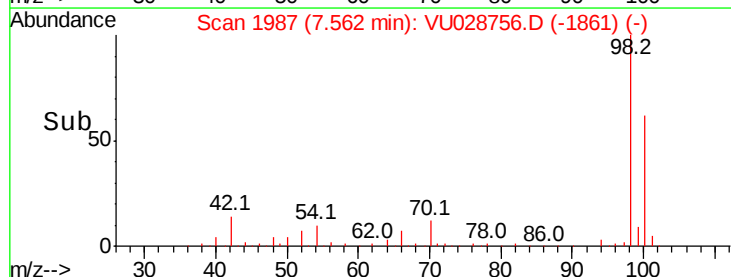
600

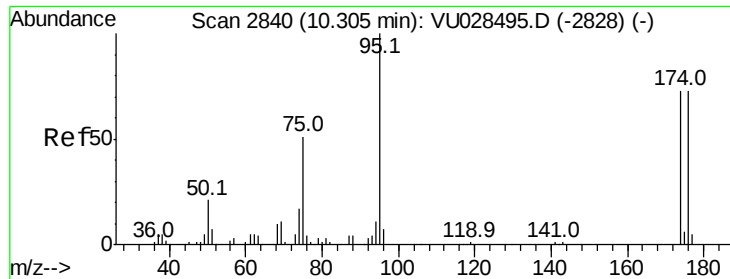
400

200

0

Time-->





#62

4-Bromofluorobenzene

Concen: 45.689 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.00 min

Lab File: VU028756.D

Acq: 18 Dec 2018 06:24

Instrument :

MSVOA_U

ClientSampleId :

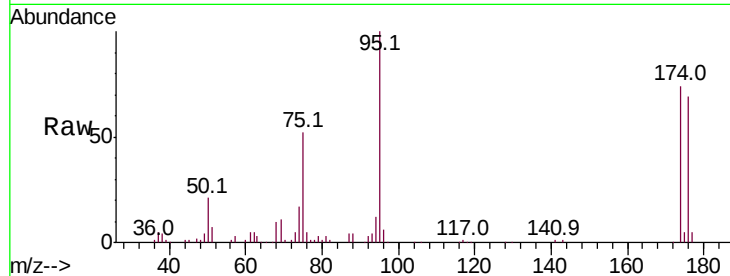
Tot Ion: 95 Resp: 62954

Ion Ratio Lower Upper

95 100

174 75.3 0.0 150.4

176 72.5 0.0 145.2

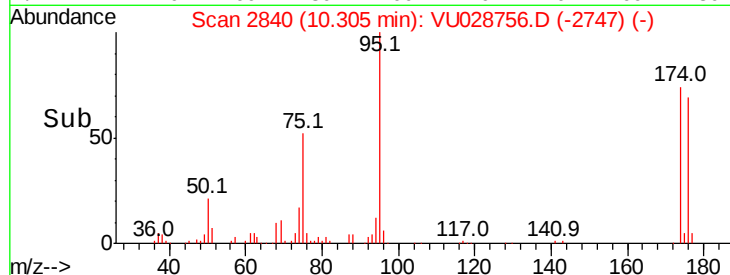


Abundance Ion 94.90 (94.60 to 95.60): VU028495.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU028495.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU028495.D (-2828) (-)

Time-->

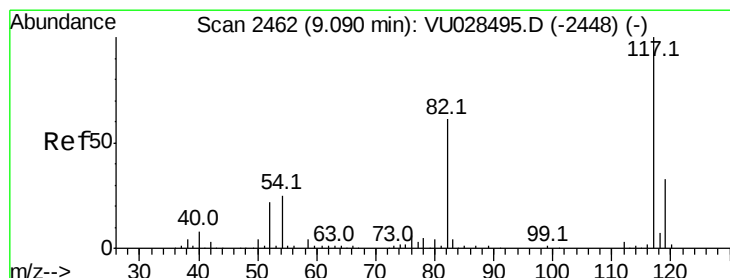


Abundance Ion 94.90 (94.60 to 95.60): VU028756.D (-2747) (-)

Ion 173.80 (173.50 to 174.50): VU028756.D (-2747) (-)

Ion 175.80 (175.50 to 176.50): VU028756.D (-2747) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU028756.D

Acq: 18 Dec 2018 06:24

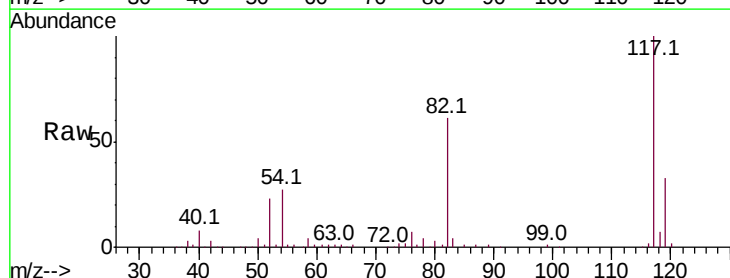
Tgt Ion: 117 Resp: 133329

Ion Ratio Lower Upper

117 100

82 61.5 48.9 73.3

119 32.7 26.2 39.4

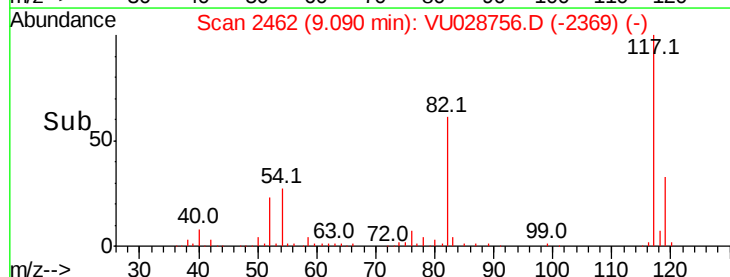


Abundance Ion 116.90 (116.60 to 117.60): VU028495.D (-2448) (-)

Ion 82.00 (81.70 to 82.70): VU028495.D (-2448) (-)

Ion 118.90 (118.60 to 119.60): VU028495.D (-2448) (-)

Time-->

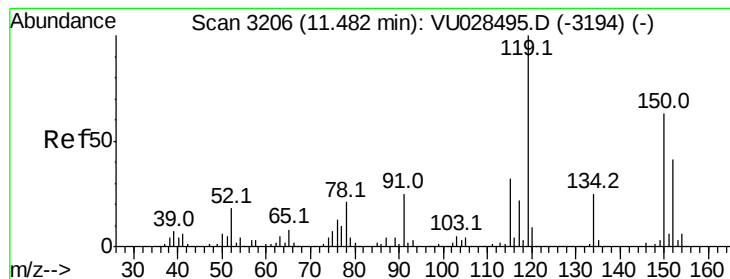


Abundance Ion 116.90 (116.60 to 117.60): VU028756.D (-2369) (-)

Ion 82.00 (81.70 to 82.70): VU028756.D (-2369) (-)

Ion 118.90 (118.60 to 119.60): VU028756.D (-2369) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028756.D

Acq: 18 Dec 2018 06:24

Instrument :

MSVOA_U

ClientSampleId :

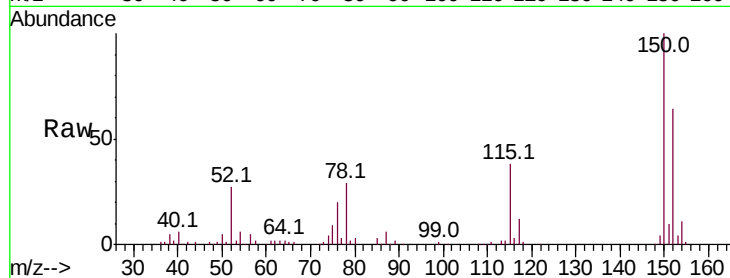
Tot Ion:152 Resp: 51847

Ion Ratio Lower Upper

152 100

115 60.5 42.7 128.1

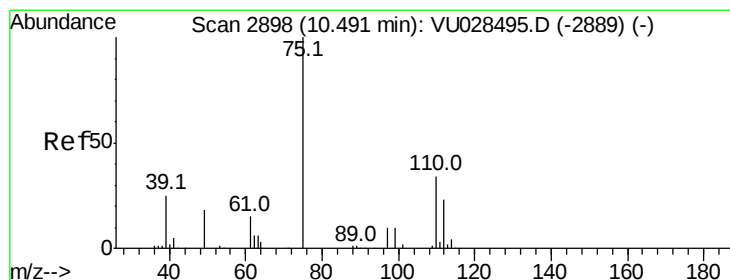
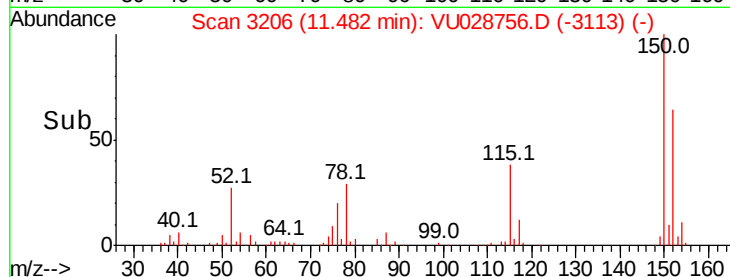
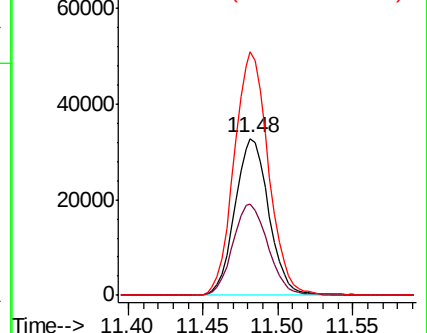
150 157.7 0.0 346.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.550 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.19 min

Lab File: VU028756.D

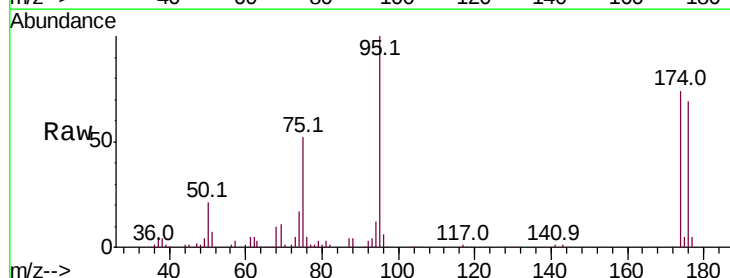
Acq: 18 Dec 2018 06:24

Tgt Ion: 75 Resp: 32502

Ion Ratio Lower Upper

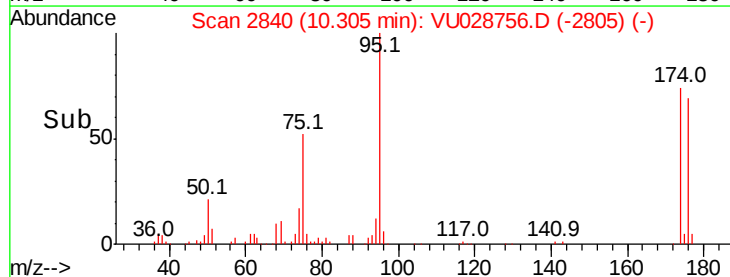
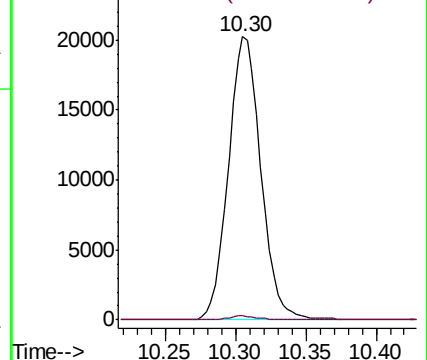
75 100

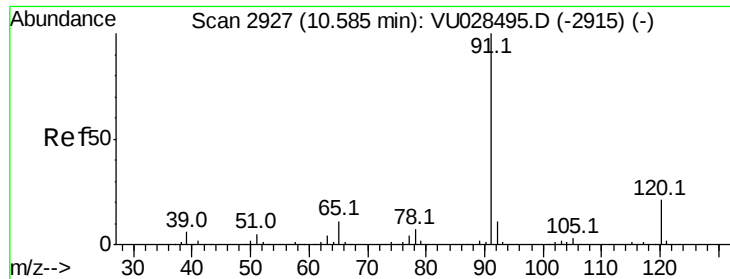
77 1.2 20.8 62.4#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0





#78

n-propylbenzene

Concen: 0.219 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. 0.00 min

Lab File: VU028756.D

Acq: 18 Dec 2018 06:24

Instrument :

MSVOA_U

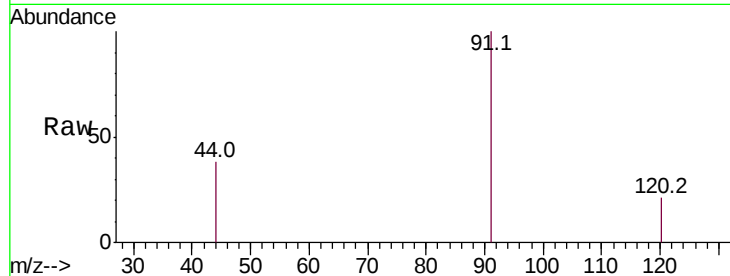
ClientSampleId :

Tot Ion: 91 Resp: 1084

Ion Ratio Lower Upper

91 100

120 12.0 10.6 31.8



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 120.00 (119.70 to 120.70): V

800

600

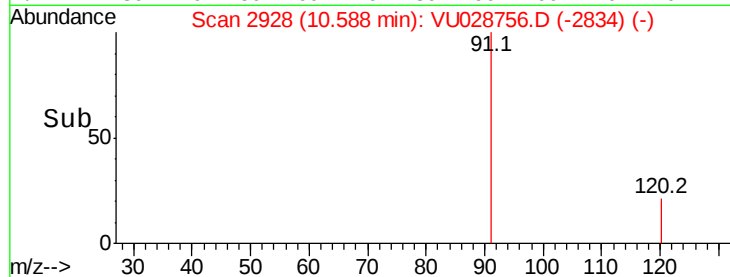
400

200

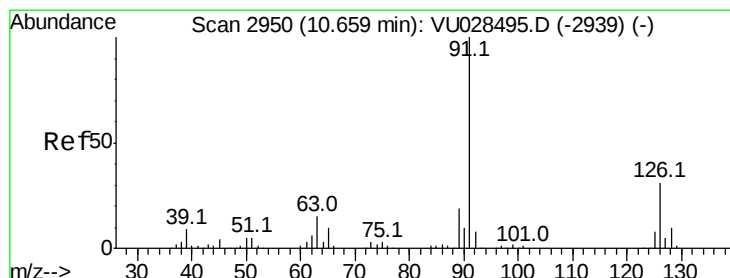
0

10.55

10.60



Time-->



#79

2-Chlorotoluene

Concen: 0.381 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. -0.07 min

Lab File: VU028756.D

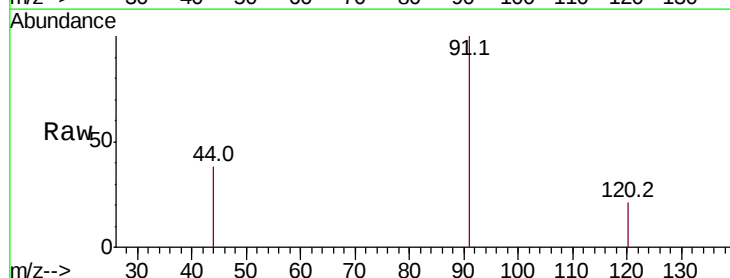
Acq: 18 Dec 2018 06:24

Tgt Ion: 91 Resp: 1084

Ion Ratio Lower Upper

91 100

126 0.0 15.6 46.8#



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

800

600

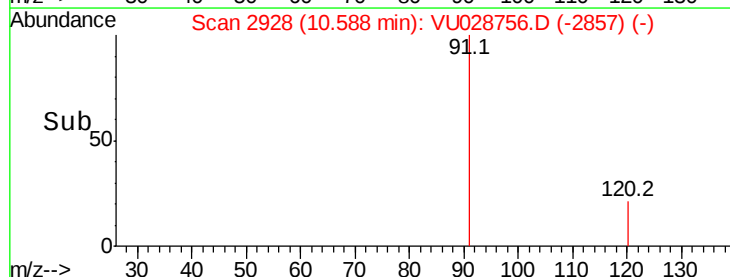
400

200

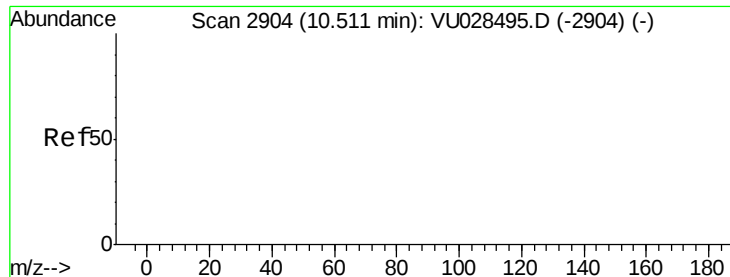
0

10.55

10.60



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 60.251 ug/l

RT: 10.30 min Scan# 2840

Delta R.T. -0.21 min

Lab File: VU028756.D

Acq: 18 Dec 2018 06:24

Instrument :

MSVOA_U

ClientSampleId :

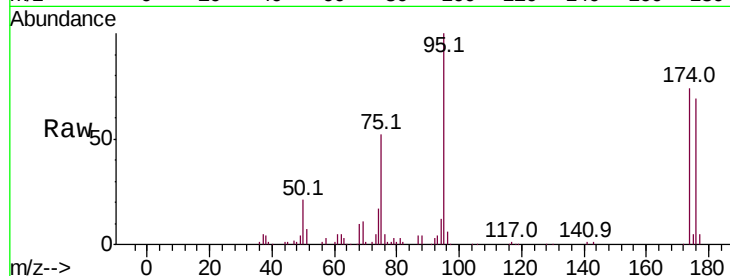
Tot Ion: 75 Resp: 32502

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

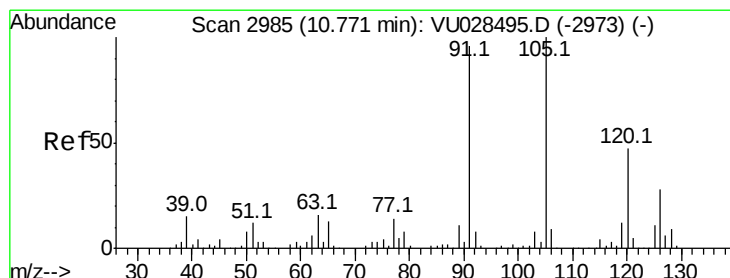
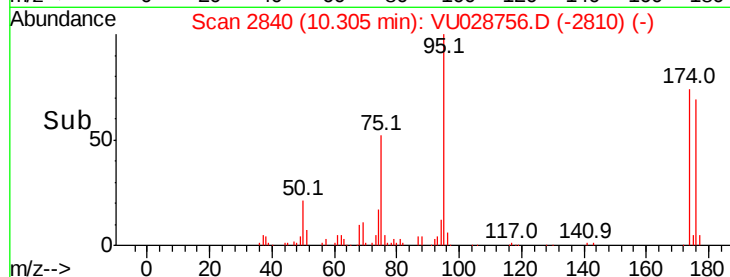
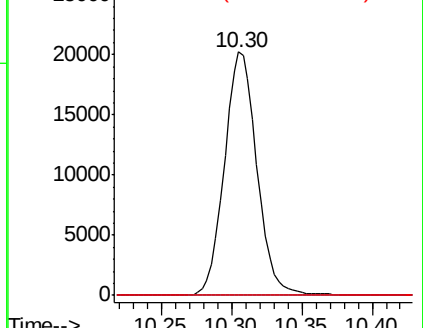
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0



#82

4-Chlorotoluene

Concen: 0.321 ug/l

RT: 10.59 min Scan# 2928

Delta R.T. -0.18 min

Lab File: VU028756.D

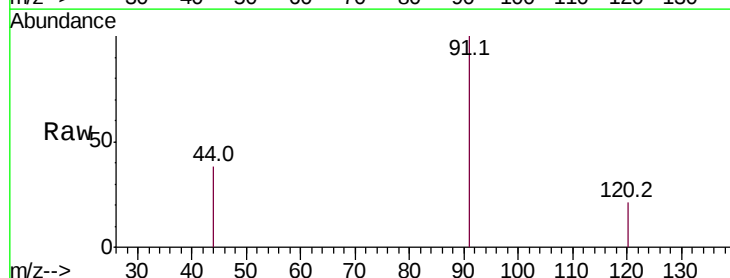
Acq: 18 Dec 2018 06:24

Tgt Ion: 91 Resp: 1084

Ion Ratio Lower Upper

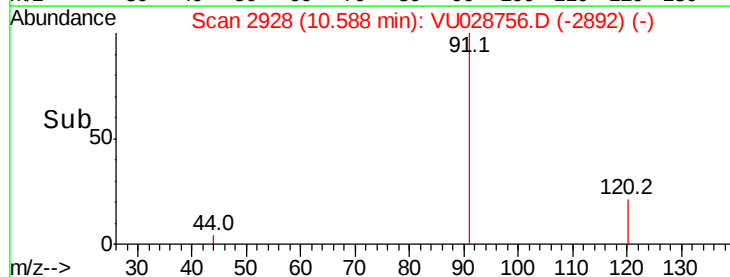
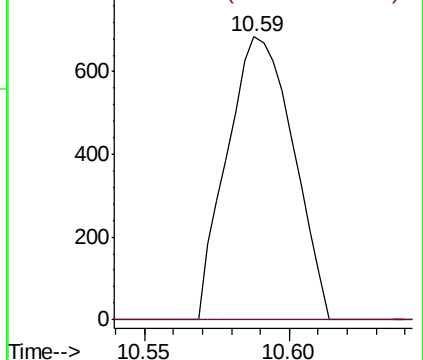
91 100

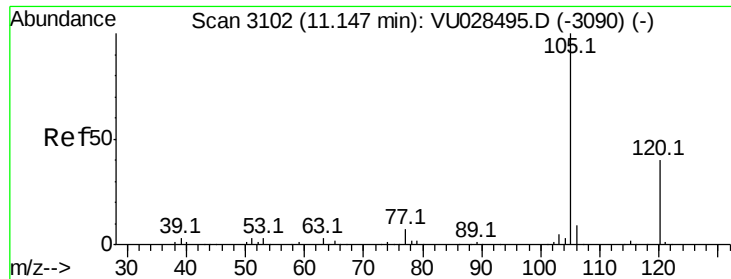
126 0.0 14.1 42.3#



Abundance Ion 91.00 (90.70 to 91.70): VU0

Ion 125.90 (125.60 to 126.60): V

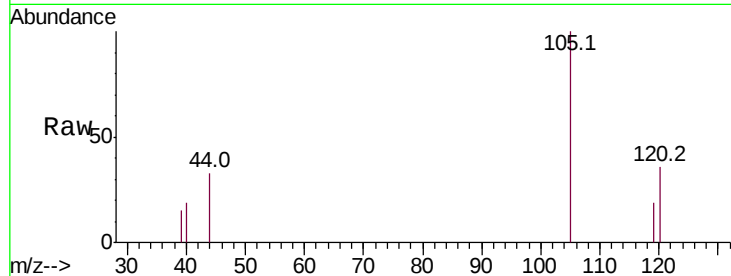




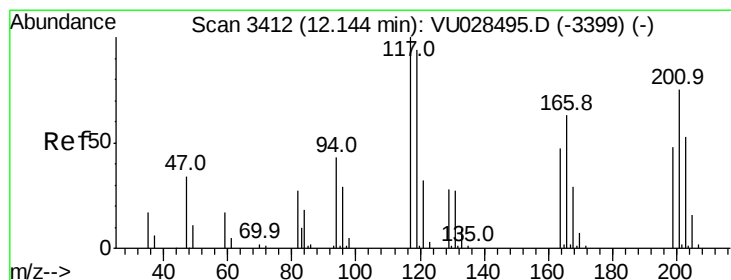
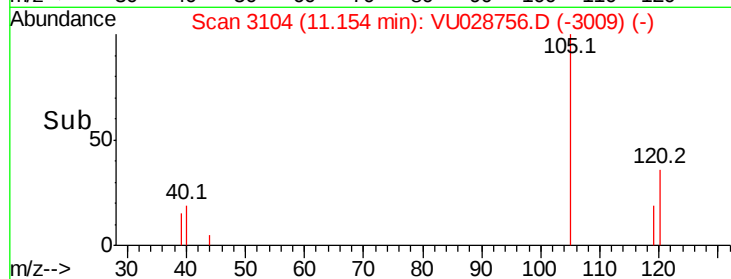
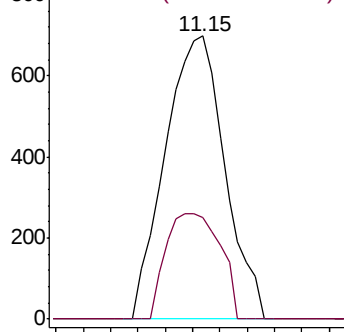
#84
 1,2,4-Trimethylbenzene
 Concen: 0.312 ug/l
 RT: 11.15 min Scan# 3104
 Delta R.T. 0.01 min
 Lab File: VU028756.D
 Acq: 18 Dec 2018 06:24

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:105 Resp: 1060
 Ion Ratio Lower Upper
 105 100
 120 34.0 21.8 65.4

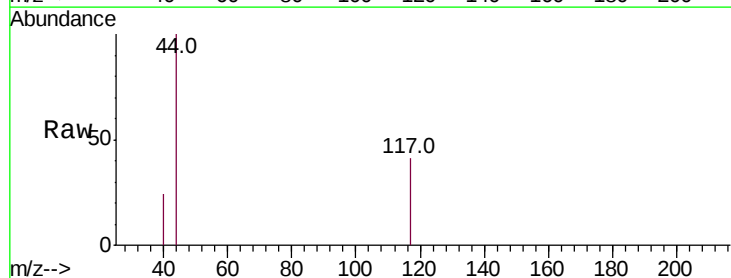


Abundance Ion 105.00 (104.70 to 105.70): V
 Ion 120.00 (119.70 to 120.70): V



#90
 Hexachloroethane
 Concen: 0.344 ug/l
 RT: 12.35 min Scan# 3477
 Delta R.T. 0.21 min
 Lab File: VU028756.D
 Acq: 18 Dec 2018 06:24

Tgt Ion:117 Resp: 180
 Ion Ratio Lower Upper
 117 100
 201 0.0 38.1 114.5#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 200.70 (200.40 to 201.40): V

